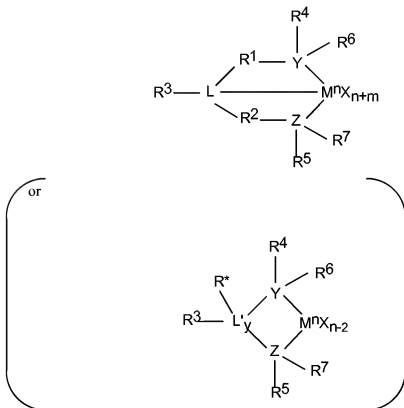


# Amendments to the Claims

Amendments to the Claims are shown based on Claims 1-14 of the corresponding issued U.S. Patent No. 6,300,439 ("US-439").

1. (Three Times Amended) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing [bidentate or] tridentate ligated metal catalyst compound, wherein the process is conducted at a temperature from between 50° C. to 200° C., and wherein the catalyst compound is represented by the formula; [formulae:]



wherein M is metal;

each X is an aryl substituted alkyl leaving group;

y is 0 or 1;

n is the oxidation state of M;

m is the formal charge of Y, Z and L [or of Y, Z, and L'];

L is a Group 15 element;

[L' is a Group 15 element or Group 14 containing group;]

Y is a Group 15 element;

Z is a Group 15 element;

R<sup>1</sup> and R<sup>2</sup> are independently a linear, branched, or cyclic C<sub>2</sub>-C<sub>20</sub> alkyl group; [C<sub>1</sub> to C<sub>20</sub> hydrocarbon group, a heteroatom containing group having up to twenty carbon atoms, silicon, germanium, tin, lead, or phosphorus; ]

R<sup>3</sup> is absent, a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

R<sup>4</sup> and R<sup>5</sup> are independently an alkyl group, an aryl group, a substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, a cyclic arylalkyl group, a substituted cyclic arylalkyl group or a multiple ring system;

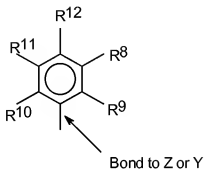
R<sup>1</sup> and R<sup>2</sup> may be interconnected to each other, and/or R<sup>4</sup> and R<sup>5</sup> may be interconnected to each other; and

R<sup>6</sup> and R<sup>7</sup> are independently absent, hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbyl group; [and

R\* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group]

wherein said Group 15 containing tridentate ligated metal catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension, and wherein said Group 15 containing tridentate ligated metal catalyst compound has an activity of at least 641 g polyethylene/mmol catalyst•atm•h.

2. (Once Amended) The process of claim 1 wherein  $R^1$  and  $R^2$  are a  $C_2$  to  $C_6$  hydrocarbon radical [selected from the group consisting of a  $C_1$  to  $C_{20}$  hydrocarbon group, a heteroatom containing group, silicon, germanium, tin, lead, and phosphorus].
3. (Cancelled)
4. (Original) The process of claim 1 wherein  $R^4$  and  $R^5$  are represented by the formula:



- wherein  $R^8$  to  $R^{12}$  are each independently hydrogen, a  $C_1$  to  $C_{40}$  alkyl group, a halide, a heteroatom, or a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic.
5. (Once Amended) The process of claim 4 wherein  $R^8$  to  $R^{12}$  [ $R^9$ ,  $R^{10}$  and  $R^{12}$ ] are independently a methyl, ethyl, propyl or butyl group and X is a substituted aryl group having greater than 10 carbon atoms.
  6. (Once Amended) The process of claim 4 wherein  $R^8$  to  $R^{12}$  [ $R^9$ ,  $R^{10}$  and  $R^{12}$ ] are methyl groups, and [ $R^8$  and  $R^{11}$  are hydrogen and] X is [a] an alkyl substituted with an aryl group.
  7. (Original) The process of claim 4 wherein L, Y, and Z are nitrogen,  $R^1$  and  $R^2$  are a hydrocarbon radical,  $R^3$  is hydrogen, and  $R^6$  and  $R^7$  are absent.
  8. (Once Amended) The process of claim 1 wherein L and Z are independently nitrogen, [L' is a hydrocarbonyl radical, ] and  $R^6$  and  $R^7$  are absent.
  9. (Cancelled)

10. (Original) The process of claim 1 wherein the process is a continuous gas phase process.
11. (Original) The process of claim 1 wherein the process is a continuous slurry phase process.
12. (Original) The process of claim 1 wherein the olefin(s) is ethylene or propylene.
13. (Original) The process of claim 1 wherein the olefins are ethylene and at least one other monomer having from 3 to 20 carbon atoms.
14. (Original) The process of claim 1 wherein the catalyst system further comprises an activator.